

Ashley Polymers Ashlene® 538 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Extruded

Material Notes:

A general purpose high viscosity extrusion grade Nylon 66.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-538-Nylon-66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.2 %	1.2 %	24 hrs; ASTM D570
Water Absorption at Saturation	8.5 %	8.5 %	ASTM D570
Linear Mold Shrinkage	0.0125 cm/cm	0.0125 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Yield	85.0 MPa	12300 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Modulus	3.00 GPa	435 ksi	ASTM D790
Izod Impact, Notched	0.640 J/cm	1.20 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	254 °C	489 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	ASTM D257
Dielectric Constant	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	ASTM D150

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